

M. Dibrown

**ENTERED**



1600

**RAW SEQUENCE LISTING**

PATENT APPLICATION: US/09/766,889C

DATE: 07/21/2003

TIME: 11:34:46

Input Set : N:\EBONY'S\US09766889C.raw.txt

Output Set: N:\CRF4\07212003\I766889C.raw

1 <110> APPLICANT: Luiten, Rosalie  
 2 Boon-Falleur, Thierry  
 3 van der Bruggen, Pierre  
 4 Stroobant, Vincent  
 5 Demotte, Nathalie  
 6 Schultz, Erwin  
 7 <120> TITLE OF INVENTION: MAGE ANTIGENIC PEPTIDES WHICH BIND HLA-B35 AND HLA-B44  
 8 <130> FILE REFERENCE: L00461/70104  
 C--> 9 <140> **CURRENT APPLICATION NUMBER: US/09/766,889C**  
 10 <141> CURRENT FILING DATE: 2001-01-19  
 11 <150> PRIOR APPLICATION NUMBER: US 60/177,242  
 12 <151> PRIOR FILING DATE: 2000-01-20  
 13 <150> PRIOR APPLICATION NUMBER: US 60/243,212  
 14 <151> PRIOR FILING DATE: 2000-10-25  
 15 <160> NUMBER OF SEQ ID NOS: 59  
 16 <170> SOFTWARE: PatentIn 3.1  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 930  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Homo sapiens  
 22 <400> SEQUENCE: 1  
 23 atgtctcttg agcagaggag tctgcactgc aagcctgagg aagcccttga ggcccaacaa 60  
 24 gaggccctgg gcctggtgtg tgtgcaggct gccacctcct cctcctctcc tctggtcctg 120  
 25 ggcaccctgg aggaggtgcc cactgctggg tcaacagatc ctccccagag tcctcagggg 180  
 26 gcctccgcct ttcccactac catcaacttc actcgacaga ggcaaccag tgagggttcc 240  
 27 agcagccgtg aagaggaggg gccaaagcacc tcttgatcc tggagtcctt gttccgagca 300  
 28 gtaatcacta agaaggtggc tgatttggtt ggttttctgc tcctcaaata tcgagccagg 360  
 29 gagccagtca caaaggcaga aatgctggag agtgtcatca aaaattacaa gcactgtttt 420  
 30 cctgagatct tcggcaaagc ctctgagtc ttgcagctgg tctttggcat tgacgtgaag 480  
 31 gaagcagacc ccaccggcca ctctatgtc cttgtcacct gcctaggtct ctctatgat 540  
 32 ggcctgctgg gtgataatca gatcatgcc aagacaggct tcctgataat tgtcctggtc 600  
 33 atgattgcaa tggagggcgg ccattgctct gaggaggaaa tctgggagga gctgagtgtg 660  
 34 atggaggtgt atgatgggag ggagcacagt gcctatgggg agcccaggaa gctgctcacc 720  
 35 caagatttgg tgcaggaaaa gtacctggag taccggcagg tgccggacag tgatcccgca 780  
 36 cgctatgagt tcctgtgggg tccaagggcc ctgcgtgaaa ccagctatgt gaaagtcctt 840  
 37 gagtatgtga tcaaggtcag tgcaagagtt cgctttttct tcccatccct gcgtgaagca 900  
 38 gctttgagag aggaggaaga gggagctctga 930  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 309  
 42 <212> TYPE: PRT  
 43 <213> ORGANISM: Homo sapiens  
 44 <400> SEQUENCE: 2  
 45 Met Ser Leu Glu Gln Arg Ser Leu His Cys Lys Pro Glu Glu Ala Leu

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46      1          5          10          15
47      Glu Ala Gln Gln Glu Ala Leu Gly Leu Val Cys Val Gln Ala Ala Thr
48              20              25              30
49      Ser Ser Ser Ser Pro Leu Val Leu Gly Thr Leu Glu Glu Val Pro Thr
50              35              40              45
51      Ala Gly Ser Thr Asp Pro Pro Gln Ser Pro Gln Gly Ala Ser Ala Phe
52              50              55              60
53      Pro Thr Thr Ile Asn Phe Thr Arg Gln Arg Gln Pro Ser Glu Gly Ser
54      65              70              75              80
55      Ser Ser Arg Glu Glu Glu Gly Pro Ser Thr Ser Cys Ile Leu Glu Ser
56              85              90              95
57      Leu Phe Arg Ala Val Ile Thr Lys Lys Val Ala Asp Leu Val Gly Phe
58              100              105              110
59      Leu Leu Leu Lys Tyr Arg Ala Arg Glu Pro Val Thr Lys Ala Glu Met
60              115              120              125
61      Leu Glu Ser Val Ile Lys Asn Tyr Lys His Cys Phe Pro Glu Ile Phe
62              130              135              140
63      Gly Lys Ala Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys
64      145              150              155              160
65      Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val Thr Cys Leu Gly
66              165              170              175
67      Leu Ser Tyr Asp Gly Leu Leu Gly Asp Asn Gln Ile Met Pro Lys Thr
68              180              185              190
69      Gly Phe Leu Ile Ile Val Leu Val Met Ile Ala Met Glu Gly Gly His
70              195              200              205
71      Ala Pro Glu Glu Glu Ile Trp Glu Glu Leu Ser Val Met Glu Val Tyr
72              210              215              220
73      Asp Gly Arg Glu His Ser Ala Tyr Gly Glu Pro Arg Lys Leu Leu Thr
74      225              230              235              240
75      Gln Asp Leu Val Gln Glu Lys Tyr Leu Glu Tyr Arg Gln Val Pro Asp
76              245              250              255
77      Ser Asp Pro Ala Arg Tyr Glu Phe Leu Trp Gly Pro Arg Ala Leu Ala
78              260              265              270
79      Glu Thr Ser Tyr Val Lys Val Leu Glu Tyr Val Ile Lys Val Ser Ala
80              275              280              285
81      Arg Val Arg Phe Phe Phe Pro Ser Leu Arg Glu Ala Ala Leu Arg Glu
82              290              295              300
83      Glu Glu Glu Gly Val
84      305
86 <210> SEQ ID NO: 3
87 <211> LENGTH: 31
88 <212> TYPE: DNA
89 <213> ORGANISM: Homo sapiens
90 <400> SEQUENCE: 3
91      aaactgcaga tgtctcttga gcagaggagt c
93 <210> SEQ ID NO: 4
94 <211> LENGTH: 30
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens

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## RAW SEQUENCE LISTING

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TIME: 11:34:46

Input Set : N:\EBONY'S\US09766889C.raw.txt

Output Set: N:\CRF4\07212003\I766889C.raw

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97 <400> SEQUENCE: 4
98      aaactgcagt cagactccct cttcctcctc
100 <210> SEQ ID NO: 5
101 <211> LENGTH: 12
102 <212> TYPE: PRT
103 <213> ORGANISM: Homo sapiens
104 <400> SEQUENCE: 5
105      Glu Ala Asp Pro Thr Gly His Ser Tyr Val Leu Val
106      1                      5                      10
108 <210> SEQ ID NO: 6
109 <211> LENGTH: 10
110 <212> TYPE: PRT
111 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 6
113      Asp Pro Thr Gly His Ser Tyr Val Leu Val
114      1                      5                      10
116 <210> SEQ ID NO: 7
117 <211> LENGTH: 9
118 <212> TYPE: PRT
119 <213> ORGANISM: Homo sapiens
120 <400> SEQUENCE: 7
121      Asp Pro Thr Gly His Ser Tyr Val Leu
122      1                      5
124 <210> SEQ ID NO: 8
125 <211> LENGTH: 9
126 <212> TYPE: PRT
127 <213> ORGANISM: Homo sapiens
128 <400> SEQUENCE: 8
129      Glu Ala Asp Pro Thr Gly His Ser Tyr
130      1                      5
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 10
134 <212> TYPE: PRT
135 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 9
137      Lys Glu Ala Asp Pro Thr Gly His Ser Tyr
138      1                      5                      10
140 <210> SEQ ID NO: 10
141 <211> LENGTH: 8
142 <212> TYPE: PRT
143 <213> ORGANISM: Homo sapiens
144 <400> SEQUENCE: 10
145      Ala Asp Pro Thr Gly His Ser Tyr
146      1                      5
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 72
150 <212> TYPE: DNA
151 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 11

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## RAW SEQUENCE LISTING

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Input Set : N:\EBONY'S\US09766889C.raw.txt

Output Set: N:\CRF4\07212003\I766889C.raw

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153      atgtctgagt ccttgacgct ggtctttggc attgacgtga aggaagcaga cccaccggc      60
154      cactcctatt ga      72
156 <210> SEQ ID NO: 12
157 <211> LENGTH: 23
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
160 <400> SEQUENCE: 12
161      Met Ser Glu Ser Leu Gln Leu Val Phe Gly Ile Asp Val Lys Glu Ala
162      1      5      10      15
163      Asp Pro Thr Gly His Ser Tyr
164      20
166 <210> SEQ ID NO: 13
167 <211> LENGTH: 33
168 <212> TYPE: DNA
169 <213> ORGANISM: Homo sapiens
170 <400> SEQUENCE: 13
171      atggaagcag accccaccgg ccactcctat tga      33
173 <210> SEQ ID NO: 14
174 <211> LENGTH: 10
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 14
178      Met Glu Ala Asp Pro Thr Gly His Ser Tyr
179      1      5      10
181 <210> SEQ ID NO: 15
182 <211> LENGTH: 30
183 <212> TYPE: DNA
184 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 15
186      atggcagacc ccaccggcca ctcctattga      30
188 <210> SEQ ID NO: 16
189 <211> LENGTH: 9
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 16
193      Met Ala Asp Pro Thr Gly His Ser Tyr
194      1      5
196 <210> SEQ ID NO: 17
197 <211> LENGTH: 9
198 <212> TYPE: PRT
199 <213> ORGANISM: Homo sapiens
200 <400> SEQUENCE: 17
201      Ser Ala Tyr Gly Glu Pro Arg Lys Leu
202      1      5
204 <210> SEQ ID NO: 18
205 <211> LENGTH: 9
206 <212> TYPE: PRT
207 <213> ORGANISM: Homo sapiens
208 <400> SEQUENCE: 18

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/766,889C

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Input Set : N:\EBONY'S\US09766889C.raw.txt

Output Set: N:\CRF4\07212003\I766889C.raw

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209      Glu Val Asp Pro Ile Gly His Leu Tyr
210          1              5
212 <210> SEQ ID NO: 19
213 <211> LENGTH: 9
214 <212> TYPE: PRT
215 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 19
217      Phe Leu Trp Gly Pro Arg Ala Leu Val
218          1              5
220 <210> SEQ ID NO: 20
221 <211> LENGTH: 10
222 <212> TYPE: PRT
223 <213> ORGANISM: Homo sapiens
224 <400> SEQUENCE: 20
225      Met Glu Val Asp Pro Ile Gly His Leu Tyr
226          1              5              10
228 <210> SEQ ID NO: 21
229 <211> LENGTH: 9
230 <212> TYPE: PRT
231 <213> ORGANISM: Homo sapiens
232 <400> SEQUENCE: 21
233      Ala Ala Arg Ala Val Phe Leu Ala Leu
234          1              5
236 <210> SEQ ID NO: 22
237 <211> LENGTH: 8
238 <212> TYPE: PRT
239 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 22
241      Tyr Arg Pro Arg Pro Arg Arg Tyr
242          1              5
244 <210> SEQ ID NO: 23
245 <211> LENGTH: 10
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 23
249      Ser Pro Ser Ser Asn Arg Ile Arg Asn Thr
250          1              5              10
252 <210> SEQ ID NO: 24
253 <211> LENGTH: 9
254 <212> TYPE: PRT
255 <213> ORGANISM: Homo sapiens
256 <400> SEQUENCE: 24
257      Val Leu Pro Asp Val Phe Ile Arg Cys
258          1              5
260 <210> SEQ ID NO: 25
261 <211> LENGTH: 10
262 <212> TYPE: PRT
263 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 25

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/766,889C

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Input Set : N:\EBONY'S\US09766889C.raw.txt  
Output Set: N:\CRF4\07212003\I766889C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:53; Xaa Pos. 1

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 7,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38  
Seq#:3; Line(s) 91  
Seq#:4; Line(s) 98  
Seq#:11; Line(s) 153,154  
Seq#:13; Line(s) 171  
Seq#:15; Line(s) 186

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/766,889C

DATE: 07/21/2003

TIME: 11:34:47

Input Set : N:\EBONY'S\US09766889C.raw.txt

Output Set: N:\CRF4\07212003\I766889C.raw

L:9 M:270 C: Current Application Number differs, Wrong Format  
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0

**STATISTICS SUMMARY**

PATENT APPLICATION: US/09/766,889C

DATE: 07/21/2003

TIME: 11:34:47

Input Set : N:\EBONY'S\US09766889C.raw.txt

Output Set: N:\CRF4\07212003\I766889C.raw

Application Serial Number: US/09/766,889C

Alpha or Numeric or Xml: Numeric

Application Class:

Application File Date: 01-19-2001

Art Unit: 1600

Software Application: PatentIN3.1

Total Number of Sequences: 59

Total Nucleotides: 2071

Total Amino Acids: 1125

Number of Errors: 0

Number of Warnings: 1

Number of Corrections: 1

**MESSAGE SUMMARY**

270 C: 1 (Current Application Number differs)

341 W: 1 ((46) "n" or "Xaa" used)